

UPDATED EAST SEARCH HISTORY

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|-------|--------------------------|---|------------------|---------|------------------|
| L1 | 244 | (252/585).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/26 06:11 |
| L2 | 3 | "6,8-disulfo-2-naphtyl" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/26 06:23 |
| L3 | 30 | "6,8-disulfo-2-naphthyl" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/26 06:23 |
| L4 | 10182 | disazo | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/26 06:23 |
| L5 | 13 | L4 and (L2 or L3) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/26 06:23 |
| S1 | 1 | ("20040069976").PN. | US-PGPUB | OR | OFF | 2005/04/06 07:32 |
| S2 | 241 | (252/585).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/04/12 13:31 |

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|-----|------|--|---|----|-----|------------------|
| S3 | 50 | ((("4774141") or ("4514559") or ("5354512") or ("5446135") or ("5480977") or ("5609796") or ("5310509") or ("5698682") or ("5739298") or ("6235064") or ("5582916") or ("5659020") or ("5700296") or ("5773169") or ("6261665") or ("6277966") or ("6420072") or ("6517746") or ("4548886") or ("4565761") or ("4985322") or ("6399752") or ("5750599") or ("5382465") or ("5583677") or ("5631051") or ("5631755") or ("5846451") or ("5863457") or ("6017465") or ("6191837") or ("4261650") or ("4372653") or ("4439346") or ("4452995") or ("4789500") or ("4824882") or ("4840640") or ("4841057") or ("4877988") or ("4882085") or ("4893911") or ("4913530") or ("4921959") or ("4923948") or ("4937425") or ("4942087") or ("5009489") or ("5204772") or ("5205922"))).PN. | USPAT | OR | OFF | 2005/04/12 13:39 |
| S4 | 2 | ((("5948152") or ("5667719"))).PN. | USPAT | OR | OFF | 2005/04/12 13:40 |
| S5 | 1 | ("6583929").PN. | USPAT | OR | OFF | 2005/04/12 13:57 |
| S6 | 9948 | disazo | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/04/12 14:34 |
| S7 | 1748 | "4-sulfophenyl" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/04/12 14:24 |
| S9 | 29 | "6,8-disulfo-2-naphthyl" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/04/12 14:33 |
| S10 | 206 | S6 and (S7 or S9) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/04/12 14:33 |

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|-----|--------|-------------------------|---|----|----|------------------|
| S11 | 255092 | polariz\$5 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/04/12 14:29 |
| S12 | 12 | S10 and S11 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/04/12 14:33 |
| S13 | 9 | S12 and @pd<="20020817" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/04/12 14:35 |
| S14 | 9 | S12 and @pd<="20030817" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/04/12 14:32 |
| S15 | 0 | S14 not S13 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/04/12 14:32 |
| S16 | 3 | "6,8-disulfo-2-naphtyl" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/04/12 14:33 |
| S17 | 197 | S6 and (S7 or S16) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/04/12 14:33 |
| S18 | 12 | S17 and S11 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/04/12 14:33 |

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|-----|-------|---------------------------|---|----|----|------------------|
| S19 | 0 | S18 not S12 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/04/12 14:33 |
| S20 | 40273 | diazo | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/04/12 14:34 |
| S21 | 404 | S20 and (S7 or S9 or S16) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/04/12 14:34 |
| S22 | 385 | S21 and @pd<="20020817" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/04/12 15:35 |
| S23 | 13 | S22 and S11 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/04/12 14:35 |
| S24 | 9 | S23 not S18 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/04/12 14:35 |
| S25 | 3 | "6,8-disulfo-2-naphtyl" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/04/12 15:32 |
| S26 | 29 | "6,8-disulfo-2-naphtyl" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/04/12 15:34 |

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|-----|------|-------------------------|---|----|----|------------------|
| S27 | 9948 | disazo | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/04/12 15:34 |
| S28 | 13 | S27 and (S25 or S26) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/04/12 15:34 |
| S29 | 11 | S28 and @pd<="20020817" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/04/12 15:35 |

INTERFERENCE SEARCH HISTORY

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|---|----------|------------------|---------|------------------|
| L7 | 1 | (disazo ("6,8-disulfo-2-naphtyl" or "6,8-disulfo-2-naphthyl")).clm. | US-PGPUB | WITH | ON | 2005/10/26 07:27 |

| Application# | Patent# | Status | Date Filed | Title | Inventor Name |
|--------------|------------|--------|------------|--|--------------------|
| 09321612 | 6214990 | 150 | 05/28/1999 | Triphenyldioxazine Compound, Method For Preparing The Same, Use Of The Compound A Dichroic Dye, And Liquid Crystal Composition | Ashida, Toru |
| 09579541 | 6440507 | 150 | 05/26/2000 | Unsymmetrical Dioxazine Compound Dichroic Dye Liquid Crystal Composition And Liquid Crystal Display Element | Ashida, Toru |
| 09990374 | 6399752 | 150 | 11/23/2001 | Polyazo Compound Or Salt Thereof And Dye-Based Polarization Film Containing The Same | Ashida, Toru |
| 10103765 | Not Issued | 161 | 03/25/2002 | Polarization Film Containing A Monoazo Compound Or Salt | Ashida, Toru |
| 10178025 | Not Issued | 168 | 06/24/2002 | Polyazo Compound Or Salt Thereof And Dye-Based Polarization Film Containing The Same | Ashida, Toru |
| 10189173 | 6699976 | 150 | 07/05/2002 | Polyazo Compound Or Salt Thereof And Dye-Based Polarization Film Containing The Same | Ashida, Toru |
| 10642193 | Not Issued | 80 | 08/18/2003 | Disazo Compound Or Salt Thereof And Polarizing Film Using The Same | Ashida, Toru |
| 10986218 | Not Issued | 30 | 11/12/2004 | Poly-Azo Compound, And Polarization Film Having Said Compound | Ashida, Toru |
| 08155834 | 5463032 | 250 | 11/23/1993 | Bisazo Compounds And Method For Dyeing Or Printing Fiber Materials Using The Same | Ohta, Yoshiteru |
| 08889888 | 6015885 | 250 | 07/10/1997 | Polyazo Compound And Method For Dyeing Or Textileprinting Fiber Material Using The Same | Ohta, Yoshiteru |
| 09081657 | 5998591 | 150 | 05/20/1998 | Fiber-Reactive Bisazo Compound | Ohta, Yoshiteru |
| 09559966 | 6284863 | 250 | 04/28/2000 | Polymers Having O-Substitutedvinylphenol Unitand Resist Compositions Containing Them | Ohta, Yoshiteru |
| 09736062 | 6696909 | 150 | 12/13/2000 | Circuit Module And Method For Mounting The Same | Ohta, Yoshiteru |
| 09990374 | 6399752 | 150 | 11/23/2001 | Polyazo Compound Or Salt Thereof And Dye-Based Polarization Film Containing The Same | Ohta, Yoshiteru |
| 10103765 | Not Issued | 161 | 03/25/2002 | Polarization Film Containing A Monoazo Compound Or Salt | Ohta, Yoshiteru |
| 10178025 | Not Issued | 168 | 06/24/2002 | Polyazo Compound Or Salt Thereof And Dye-Based Polarization Film Containing The Same | Ohta, Yoshiteru |
| 10189173 | 6699976 | 150 | 07/05/2002 | Polyazo Compound Or Salt Thereof And Dye-Based Polarization Film Containing The Same | Ohta, Yoshiteru |
| 10642193 | Not Issued | 80 | 08/18/2003 | Disazo Compound Or Salt Thereof And Polarizing Film Using The Same | Ohta, Yoshiteru |
| 11137097 | Not Issued | 30 | 05/25/2005 | Polarizing Plate | Ohta, Yoshiteru |
| 08134942 | 5480977 | 150 | 10/13/1993 | Disazo Dyes Having Aminobenzoylamino Group | Hayashi, Narutoshi |
| 08249736 | 6235064 | 150 | 05/26/1994 | Dye Containing Polarizing Film | Hayashi, Narutoshi |
| 08527557 | 5659020 | 150 | 09/13/1995 | Tetrakisazo Compound And A Polarizing Film Containing The Same | Hayashi, Narutoshi |
| 08603107 | 5700296 | 150 | 02/20/1996 | An Azo Compound And A Polarizing Film Containing The Same | Hayashi, Narutoshi |
| 09000457 | 6204903 | 150 | 01/28/1998 | Reflector, Reflective Polarizing Plate And Reflective Liquid Crystal Display | Hayashi, Narutoshi |
| 09090923 | 6166793 | 150 | 06/05/1998 | Reflective Liquid Crystal Display With Angularly Selective Light Diffuser Directly On Reflector | Hayashi, Narutoshi |
| 09398827 | 6522468 | 150 | 09/17/1999 | Light-Polarizing Film | Hayashi, Narutoshi |
| 09676482 | Not Issued | 61 | 10/02/2000 | Reflector, Reflective Polarizing Plate And Reflective Liquid Crystal Display | Hayashi, Narutoshi |
| 09736375 | 6277966 | 150 | 12/15/2000 | Azo-Compounds And Dye Polarizing Films Containing Them | Hayashi, Narutoshi |
| 09949641 | 6606136 | 150 | 09/12/2001 | Iodine-Type Polarizing Plate | Hayashi, Narutoshi |
| 09990374 | 6399752 | 150 | 11/23/2001 | Polyazo Compound Or Salt Thereof And Dye-Based Polarization Film Containing The Same | Hayashi, Narutoshi |
| 10062437 | Not Issued | 95 | 02/05/2002 | Polarizing Plate And Liquid Crystal Display Device Using The Same | Hayashi, Narutoshi |
| 10103765 | Not Issued | 161 | 03/25/2002 | Polarization Film Containing A Monoazo Compound Or Salt | Hayashi, Narutoshi |
| 10140218 | Not Issued | 41 | 05/08/2002 | Polarizing Plate And Method For Producing The Same | Hayashi, Narutoshi |
| 10178025 | Not Issued | 168 | 06/24/2002 | Polyazo Compound Or Salt Thereof And Dye-Based Polarization Film Containing The Same | Hayashi, Narutoshi |
| 10189173 | 6699976 | 150 | 07/05/2002 | Polyazo Compound Or Salt Thereof And Dye-Based Polarization Film Containing The Same | Hayashi, Narutoshi |
| 10224416 | 6583929 | 150 | 08/21/2002 | Light-Polarizing Film | Hayashi, Narutoshi |
| 10372788 | Not Issued | 61 | 02/26/2003 | Polarizing Plate And Its Production Method | Hayashi, Narutoshi |
| 10538079 | Not Issued | 20 | 06/09/2005 | Method For Producing Iodine Type Polarizing Film | Hayashi, Narutoshi |
| 10642193 | Not Issued | 80 | 08/18/2003 | Disazo Compound Or Salt Thereof And Polarizing Film Using The Same | Hayashi, Narutoshi |
| 10752018 | Not Issued | 41 | 01/07/2004 | Iodine Type Polarizing Film, Method Of Producing The Same And Polarizer Using The Same | Hayashi, Narutoshi |
| 10758119 | Not Issued | 120 | 01/16/2004 | Polarizing Plate And Liquid Crystal Display Device Using The Same | Hayashi, Narutoshi |
| 10769916 | Not Issued | 71 | 02/03/2004 | Polarizer, Process For Preparing The Same, Optical Member And Liquid Crystal Displaying Apparatus | Hayashi, Narutoshi |
| 1077670 | Not Issued | 41 | 02/13/2004 | Dye Type Polarizing Film And Dye Type Polarizer | Hayashi, Narutoshi |
| 10986218 | Not Issued | 30 | 11/12/2004 | Poly-Azo Compound, And Polarization Film Having Said Compound | Hayashi, Narutoshi |
| 11137097 | Not Issued | 30 | 05/25/2005 | Polarizing Plate | Hayashi, Narutoshi |
| 11204374 | Not Issued | 20 | 08/16/2005 | Polarized Light Separating Element Embedded With Thin Metallic Wire | Hayashi, Narutoshi |